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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,353	05/05/2006	Hiroshi Kajitani	8017-1191	8961
466 YOUNG & TH	7590 08/06/200 OMPSON	EXAMINER		
209 Madison St	reet	MARTIN, ANGELA J		
Suite 500 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			08/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/578,353	KAJITANI ET AL.				
Office Action Summary	Examiner	Art Unit				
	ANGELA J. MARTIN	1795				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>28 Ju</u>	ılv 2008					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdra						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	e r .					
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b)□ objected to by the I	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/28/08 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-7, 10-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Becerra et al., U.S. Pat. No. 7,270,907 B2.

Rejection of claims 1-7, 10-20 drawn to a fuel cartridge.

Becerra et al., teach a fuel cartridge for a fuel cell comprising a first chamber for retaining first liquid fuel, said first liquid fuel being a high-concentration liquid fuel; a

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second chamber for retaining second liquid fuel, said second liquid fuel being a lowconcentration liquid fuel (col. 4, lines 24-27); a partition wall for partitioning said first chamber and said second chamber (Fig. 12, bladder walls), and a mounting section to be fixed to a fuel cell body (Fig. 13, ref. 1302), wherein said second chamber is provided with a fuel outlet port through which said second liquid fuel passes to said fuel cell body (col. 4, lines 24-27; col. 9, lines 43-46), and is provided with a fuel inlet port to which the first liquid fuel is introduced from the first chamber (col. 10, lines 29-34), and the fuel cartridge is removable mountable to said fuel cell body (col. 8, lines 57-65; col. 10, lines 54-56, 66-67 and col. 11, lines 1-2). The fuel cartridge for the fuel cell according to claim 1, wherein said second chamber further comprises a fuel recovery pipe connection hole through which said second chamber receives fuel from the fuel cell body (col. 10, lines 29-34). The fuel cartridge for the fuel cell according to claim 1, wherein said fuel outlet port is further arranged in the first chamber, and the first liquid fuel passes through said fuel outlet port arranged in said first chamber (col. 9, lines 41-43; Fig. 12). (Fig. 13). The fuel cartridge for the fuel cell according to claim 1, wherein said second chamber is a fuel mixing tank for mixing said first liquid fuel and said second liquid fuel (Fig. 13, col. 10; lines 29-41). The cartridge wherein the first liquid fuel and second liquid fuel are different in color (col. 10, lines 6-18). The fuel cartridge for the fuel cell according to claim 1, further comprising a first container having said first chamber and a second container having said second chamber and constructed so as to be removably mounted to said first container (col. 10, lines 25-28 and lines 66-67 and col. 11, lines 1-2). The fuel cartridge for the fuel cell according to claim 6, further

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comprising a fitting section at which said first container and said second container are fitted to each other (Fig. 12, ref. 1202). A fuel cell comprising a fuel cell body having a fuel pole and the fuel cartridge for the fuel cell according to claim 1, which contains liquid fuel, to be supplied to said fuel pole (col. 9, lines 13-19). The fuel cartridge for the fuel cell according to claim 1, wherein a liquid surface indication member for indicating the level of a liquid surface of said first liquid fuel or the level of a liquid surface of said second liquid fuel is arranged in said first chamber or in said second chamber (Fig. 6; col. 7, lines 20-30). The fuel cell according to claim 14, wherein a measurement section for measuring the level of a liquid surface of said first liquid fuel or the level of a liquid surface of said second liquid fuel is arranged in said fuel cell body (Fig. 6; col. 7, lines 20-30).

Thus, the claims are anticipated.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Becerra et al., U.S. Pat. No. 7,270,907 B2, in view of Prased et al., U.S. Pat. Application

Pub. 2003/0138679 A1 or Bullock et al. U.S. Pat. Application Pub. 2003/0207158 A1 or DeVos et al., U.S. Pat. Application Pub. 2005/0079128 A1.

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Becerra et al., teach a fuel cell as described above.

Becerra et al., do not teach cover member for covering fuel outlet port.

Prased et al., teach a cover member for covering said fuel outlet port, wherein said cover member is formed into a removable sheet (0041); further comprising a cover member for covering said fuel outlet port, wherein said cover member is an elastic member with a self-sealing characteristic (0036).

Bullock et al., teach a cover member for covering said fuel outlet port, wherein said cover member is formed into a removable sheet (0030-0031); further comprising a cover member for covering said fuel outlet port, wherein said cover member is an elastic member with a self-sealing characteristic (0030-0031).

DeVos et al., teach a cover member for covering said fuel outlet port, wherein said cover member is formed into a removable sheet (0038); further comprising a cover member for covering said fuel outlet port, wherein said cover member is an elastic member with a self-sealing characteristic (0035-0036).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to insert the teachings of Prased et al., or Bullock et al., or DeVos et al., into the teachings of Becerra et al., because the prior art of record teach a self-sealing arrangement prevents leakage from the fuel receptacle.

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Response to Arguments

3. Applicant's arguments filed 7/28/08 have been fully considered but they are not persuasive. Applicant argues that "Becerra et al. shows that fuel is supplied to fuel cell from a cartridge, and effluent is supplied to the cartridge from the fuel cell. On the other hand, the present invention supplies fuel to the second chamber of a cartridge, and then the fuel circulates in the second chamber of the cartridge and a fuel cell." However, Becerra et al., disclose fuel supplied to the second chamber of a cartridge (col. 4, lines 24-27; col. 9, lines 43-46).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELA J. MARTIN whose telephone number is (571)272-1288. The examiner can normally be reached on Monday-Friday from 10:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJM /Angela J. Martin/ Examiner, Art Unit 1795 Application Number

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10/578,353	KAJITANI ET AL.		
Examiner	Art Unit		
ANGELA I MADTIN	1705		

U.S. Patent and Trademark Office Part of Paper No. 20080802